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Abstract

10 The present invention relates to a demodulation structure and method for downconverting and demodulating a digitally modulated signal S_0 , with a local oscillator means (1; 5; 8) for providing a local oscillator signal S_{lo} , a mixer means (2) for mixing said local oscillator signal S_{lo} and said digitally modulated signal S_0 in order to obtain a mixed signal, a lowpass filter means (3) for lowpass filtering the mixed signal from the mixer means (2) and an analog-to-digital converting means (4) for converting the filtered signal from the lowpass filter means (3) into a downconverted and demodulated digital signal S_1 , whereby the local oscillator signal is set in respect to
15 the modulated digital signal so that the downconverted and demodulated digital signal output from the analog-to-digital converting means comprises two serially arranged information parts.

20 The present invention provides a demodulation structure and method with a very simple structure and essentially improved amplitude and phase imbalances.

(Figure 1)